

| Project Title | Funding | Strategic Plan Objective | Institution |
|---|-------------|--------------------------|---------------------------------------|
| Multimodal Developmental Neurogenetics of Females with ASD | \$2,738,896 | Q2.S.B | Yale University |
| FUNCTIONAL ANATOMY OF FACE PROCESSING IN THE PRIMATE BRAIN | \$1,678,442 | Q2.Other | National Institutes of Health |
| The Cognitive Neuroscience of Autism Spectrum Disorders | \$1,032,186 | Q2.Other | National Institutes of Health |
| Longitudinal MRI Study of Brain Development in Fragile X | \$773,954 | Q2.S.D | Stanford University |
| Integrity and Dynamic Processing Efficiency of Networks in ASD | \$763,675 | Q2.Other | SAN DIEGO STATE UNIVERSITY |
| Multiscale Genetic Connectivity of Primate Social Circuits | \$735,023 | Q2.Other | University of Utah |
| Functional connectivity substrates of social and non-social deficits in ASD | \$698,074 | Q2.Other | Massachusetts General Hospital |
| Functional and Structural Optical Brain Imaging | \$634,153 | Q2.Other | National Institutes of Health |
| Brain Bases of Language Deficits in SLI and ASD | \$614,180 | Q2.Other | MASSACHUSETTS INSTITUTE OF TECHNOLOGY |
| Cell adhesion molecules in autism: a whole-brain study of genetic mouse models | \$467,000 | Q2.Other | COLD SPRING HARBOR LABORATORY |
| Imaging adaptive cerebellar processing at cellular resolution in awake mice | \$428,215 | Q2.Other | PRINCETON UNIVERSITY |
| Neural markers of shared gaze during simulated social interactions in ASD | \$416,250 | Q2.Other | Yale University |
| Social Brain Networks for the Detection of Agents and Intentions | \$416,250 | Q2.Other | Yale University |
| Genome-wide Identification of Variants Affecting Early Human Brain Development | \$413,630 | Q2.S.G | University of North Carolina |
| Networked Cortical Responses to Movement Associated with ASD | \$372,970 | Q2.Other | Duke University |
| Electrophysiological Signatures of Language Impairment in Autism Spectrum Disord | \$318,332 | Q2.Other | Children's Hospital of Philadelphia |
| Ontogeny and neural basis of social visual engagement in monkeys | \$312,009 | Q2.Other | Emory University |
| Neuronal Basis of Vicarious Reinforcement Dysfunction in Autism Spectrum Disorder | \$309,761 | Q2.Other | Duke University |
| Alterations in brain-wide neuroanatomy in autism mouse models | \$300,000 | Q2.Other | Cold Spring Harbor Laboratory |
| Neural and cognitive discoordination in autism-related mouse models | \$277,072 | Q2.S.D | New York University |
| Intrinsic Brain Architecture of Young Children with Autism While Awake and Asleep | \$254,250 | Q2.Other | New York University |
| Controlling Interareal Gamma Coherence by Optogenetics, Pharmacology and Behavior | \$250,152 | Q2.Other | PRINCETON UNIVERSITY |
| fMRI and EEG approaches to the resting state in ASD | \$240,042 | Q2.Other | SAN DIEGO STATE UNIVERSITY |
| | | | |

| Project Title | Funding | Strategic Plan Objective | Institution |
|---|-----------|--------------------------|--|
| Investigating Brain Connectivity in Autism at the Whole-Brain Level | \$232,967 | Q2.Other | Johns Hopkins University |
| Functional connectivity in autism spectrum disorders | \$209,375 | Q2.Other | Children's Hospital of Philadelphia |
| Dysfunction of Sensory Inhibition in Autism | \$202,145 | Q2.Other | Johns Hopkins University |
| Neural mechanisms underlying autism behaviors in SCN1A mutant mice | \$200,000 | Q2.S.D | University of Washington |
| Linking circuit dynamics and behavior in a rat model of autism | \$196,290 | Q2.S.D | University of California, San Francisco |
| Brain Network Development in Normal and Autistic Children | \$187,164 | Q2.Other | University of Utah |
| Decoding Neural Systems Underlying Affective Prosody in Children with Autism | \$176,164 | Q2.Other | Stanford University |
| EEG-Based Assessment of Functional Connectivity in Autism | \$175,176 | Q2.Other | HUGO W. MOSER RESEARCH INSTITUTE KENNEDY KRIEGER |
| Brain Systems Supporting Learning and Memory in Children with Autism | \$172,797 | Q2.Other | Stanford University |
| Neurobehavioral Investigation of Tactile Features in Autism Spectrum Disorders | \$162,562 | Q2.Other | Vanderbilt University |
| Characterizing mechanistic heterogeneity across ADHD and Autism | \$140,305 | Q2.Other | Oregon Health & Science University |
| Decoding Affective Prosody and Communication Circuits in Autism | \$138,829 | Q2.L.B | Stanford University |
| Mapping functional neural circuits that mediate social behaviors in autism | \$125,000 | Q2.Other | Duke University |
| Hippocampal mechanisms of social learning in animal models of autism | \$125,000 | Q2.Other | Baylor College of Medicine |
| Cortico-striatal dysfunction in the eIF4E transgenic mouse model of autism | \$124,496 | Q2.S.D | New York University |
| CLARITY: circuit-dynamics and connectivity of autism-related behavior | \$124,148 | Q2.Other | Stanford University |
| Structural and Functional Connectivity of Large-Scale Brain Networks in Autism | \$112,748 | Q2.Other | University of Miami |
| The role of UBE3A in autism: Is there a critical window for social development? | \$108,900 | Q2.S.D | Erasmus University Medical Center |
| Cognitive Control of Emotion in Autism | \$101,348 | Q2.Other | University of Pittsburgh |
| Local functional connectivity in the brains of people with autism | \$101,012 | Q2.L.B | Massachusetts General Hospital |
| Corticothalamic circuit interactions in autism | \$100,000 | Q2.Other | Boston Children's Hospital |
| Neural markers of shared gaze during simulated social interactions in ASD | \$99,801 | Q2.Other | Yale University |
| | | | |

| Project Title | Funding | Strategic Plan Objective | Institution |
|---|----------|--------------------------|---|
| FMRP regulates the pruning of cell-to-cell connections in the neocortex | \$79,500 | Q2.S.D | UT SOUTHWESTERN MEDICAL CENTER |
| Probing the neural basis of social behavior in mice | \$62,500 | Q2.S.D | Massachusetts Institute of Technology |
| Local connectivity in altered excitation/inhibition balance states | \$62,500 | Q2.Other | Weizmann Institute of Science |
| Linking genetic mosaicism, neural circuit abnormalities and behavior | \$62,500 | Q2.S.D | Brown University |
| Disrupted Network Activity in Neonatal Cortex of Mouse Models of Autism | \$62,500 | Q2.S.B | Yale University |
| Social interaction and reward in autism: Possible role for ventral tegmental area | \$62,440 | Q2.Other | University of Geneva |
| Imaging-based real-time feedback to enhance therapeutic intervention in ASD | \$61,530 | Q2.L.B | Stanford University |
| Direct Recordings from the Brain in Autism | \$60,000 | Q2.S.E | California Institute of Technology |
| Multisensory processing in autism | \$60,000 | Q2.Other | Baylor College of Medicine |
| Imaging markers of brain malformations in people with 16p11.2 alterations | \$60,000 | Q2.S.G | New York University |
| Rapid screening for cortical circuit dysfunction in autism-related mouse models | \$59,835 | Q2.S.D | University of California, Berkeley |
| Social reward in autism: Electrophysiological, behavioral, and clinical correlates | \$54,400 | Q2.Other | SEATTLE CHILDREN'S HOSPITAL |
| Neural Synchrony and Plasticity in Children with Autism | \$54,400 | Q2.Other | University of North Carolina |
| Behavioral, fMRI, and Anatomical MRI Investigations of Attention in Autism | \$53,282 | Q2.Other | MASSACHUSETTS INSTITUTE OF TECHNOLOGY |
| Cell adhesion molecules in autism: a whole-brain study of genetic mouse models | \$47,900 | Q2.Other | COLD SPRING HARBOR LABORATORY |
| Mechanical characterization of brain tissue and individual neurons in Autism Spectrum Disorders | \$41,902 | Q2.Other | Boston Children's Hospital |
| Social Motivations and Striatal Circuit Development in Children and Adolescents with Autism | \$35,000 | Q2.L.B | Stanford University |
| Characterizing and Manipulating the Social Reward Dysfunction in a Novel Mouse Model for Autism | \$35,000 | Q2.Other | Massachusetts Institute of Technology |
| Structural Polarity Influences Terminal Placement and Competition in Formation of the Calyx of Held | \$32,270 | Q2.Other | WEST VIRGINIA UNIVERSITY |
| Investigating brain organization and activation in autism at the whole-brain level | \$30,000 | Q2.Other | California Institute of Technology |
| Regulation of Interneuron Development in the Cortex and Basal Ganglia by Coup-TF2 | \$30,000 | Q2.Other | University of California, San Francisco |
| Developmental in Axons underlie Neuropsychiatric Illness | \$30,000 | Q2.Other | Children's Research Institute (CRI) Children's National Medical Center |
| | | | |

| Project Title | Funding | Strategic Plan Objective | Institution |
|--|----------|--------------------------|--|
| Probing the temporal dynamics of aberrant neural communication and its relation to social processing deficits in autism spectrum disorders | \$29,987 | Q2.Other | University of Pittsburgh |
| Neural basis of working memory and inhibitory control in ASD Children using NIRS | \$29,976 | Q2.Other | GEORGETOWN UNIVERSITY |
| Engagement of Social Cognitive Networks during Game Play in Autism | \$29,933 | Q2.Other | Duke University |
| Using fMRI to understand the Neural Mechanisms of Pivotal Response Treatment | \$29,500 | Q2.L.B | University of California, Santa Barbara |
| Na+-H+ Exchanger Mechanisms in Autism Pathophysiology and Treatment | \$29,478 | Q2.Other | Brown University |
| An fMRI investigation of propagated intrinsic activity in early development and autism | \$28,934 | Q2.Other | Washington University in St. Louis |
| Neural Correlates of Imitation in Children with Autism and their Unaffected Siblings | \$28,600 | Q2.L.B | Harvard University |
| Development of a connectomic functional brain imaging endophenotype of autism | \$27,327 | Q2.Other | University of Cambridge |
| The role of Shank3 in neocortex versus striatum and the pathophysiology of autism | \$25,000 | Q2.S.D | Duke University |
| The Neural Bases of Top-Down Attentional Control in Autism Spectrum Disorders | \$14,160 | Q2.Other | CITY COLLEGE OF NEW YORK |
| Neuregulin 1 (NRG1) in autistic children | \$5,520 | Q2.S.A | Hartwick College |
| Undergraduate Research Award | \$3,000 | Q2.L.B | SAN DIEGO STATE UNIVERSITY |
| Undergraduate Research Award | \$3,000 | Q2.S.B | University of Washington |
| Synchronous activity in networks of electrically coupled cortical interneurons | \$0 | Q2.Other | University of California, Davis |
| CAREER: Integrative behavioural and neurophysiological studies of normal and autistic cognition using video game environments | \$0 | Q2.Other | Cornell University |
| Mapping functional connectivity networks in autism spectrum disorder with diffuse optical tomography | \$0 | Q2.Other | Washington University in St. Louis |
| Excitatory/Inhibitory Imbalance in Autism and Early-course Schizophrenia | \$0 | Q2.L.B | Connecticut Mental Health Center |
| Electrophysiologic biomarkers of language function in autism spectrum disorders | \$0 | Q2.L.B | University of California, Los Angeles |
| Thalamocortical connectivity in children and adolescents with ASD-A combined fcMRI and DTI approach | \$0 | Q2.Other | SAN DIEGO STATE UNIVERSITY |
| Genetic contribution to language-related preclinical biomarkers of autism | \$0 | Q2.S.D | University of Pennsylvania |
| Brain-behavior interactions and visuospatial expertise in autism: a window into the neural basis of autistic cognition | \$0 | Q2.Other | Hospital Riviere-des-Praires, University of Montreal, Canada |

| Project Title | Funding | Strategic Plan Objective | Institution |
|--|---------|--------------------------|--|
| Stimulus preceding negativity and social stimuli in autism spectrum disorder | \$0 | Q2.Other | University of California, San Diego |
| Determining the role of GABA in four animal models of autism | \$0 | Q2.Other | Neurochlore |
| Role of Serotonin Signaling during Neural Circuitry Formation in Autism Spectrum Disorders | \$0 | Q2.S.D | Massachusetts Institute of Technology |
| The Role of Shank3 in Neocortex Versus Striatum and the Pathophysiology of Autism | \$0 | Q2.S.G | Duke University |
| BRAIN MECHANISMS OF AFFECTIVE LANGUAGE COMPREHENSION IN AUTISM SPECTRUM DISORDERS | \$0 | Q2.Other | University of Maryland |
| Functional Connectivity during Working Memory in Children with ASD: A NIRS Study | \$0 | Q2.Other | Georgetown University |
| Altered sensorimotor processing in a mouse model of autism | \$0 | Q2.Other | Louisiana State University School of Veterinary Medicine |
| GABA and Gamma-band Activity: Biomarker for ASD? | \$0 | Q2.S.D | University of Pennsylvania |
| Amygdala circuitry of impaired social-emotional behavior in autism | \$0 | Q2.Other | Rosalind Franklin University of Medicine and Science |

